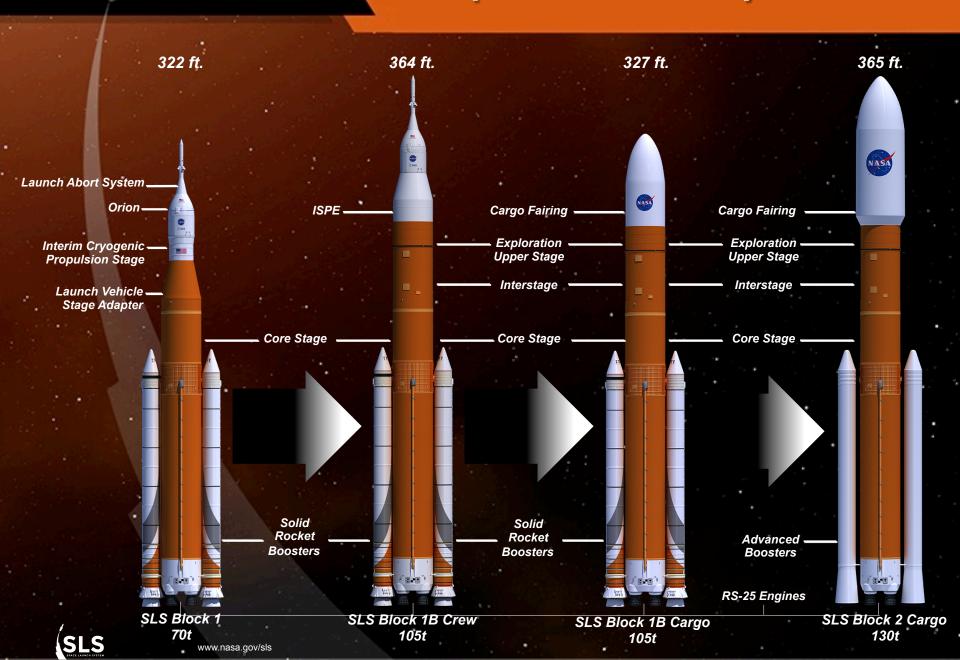


## **Evolution of NASA's Space Launch System**



# **SLS Program Organization At MSFC**









Associate

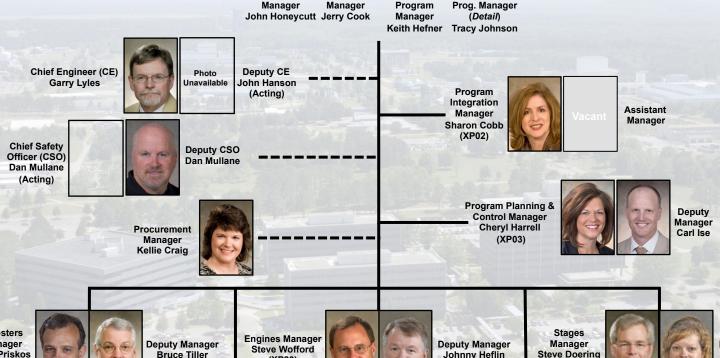


Assistant Prog. Manager (Detail)



Deputy Program Manager

Program Manager



**Boosters** Manager Alex Priskos (XP10)



**Bruce Tiller** 

(XP20)



Johnny Heflin



— Hard line programmatic --- Matrix relationship

**Deputy Manager** Julie Bassler

Spacecraft/Payload Integration and **Evolution Office** Jerry Cook (Acting Manager) (XP50)



**Deputy Manager Steve Creech** 

Ground Operations Liaison Manager **Brian Matisak** (XP60)



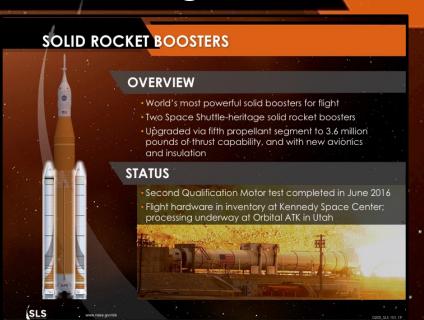
**Assistant Manager Andy Warren** 

# SLS SE&I Management Structure

SLS Program Office Organization	Chief Engineer's Office	SLS SE&I Management Structure								
		Systems Engineering	Vehicle Management (EV40)	Structures and Environments (EV30)	Propulsion (ER01)	Production (EM01)	Integrated Avionics and Software (ES01)	Operations (EO01)	Test (ET01)	S&MA
SLS Program Manager SLS Program Deputy Mgr. Technical Assistant Procurement	Program Chief Engineer Program Deputy Chief Eng. Assistant Chief Engineer for Affordability Technical Mgr.	LSE:	DLE:	DLE:	DLE:	DLE:	DLE:	DLE:	DLE:	Program CSO:
Stages Element Manager Stages Deputy Element Mgr. Avionics Element Manager	Stages Chief Engineer Stages Deputy Chief Eng. Avionics Chief Engineer	ELSE:	EDLE:	EDLE:	EDLE:	EDLE:	EDLE:	EDLE:	EDLE:	Element CSO:
Booster Element Manager Booster Deputy Element Mgr. Control Systems Mgr. Assembly & Structures Systems Mgr. BSM Assembly System Mgr.	Booster Chief Engineer Booster Deputy Chief Eng.	ELSE:	EDLE:	EDLE:	EDLE:	EDLE:	EDLE:	EDLE:	EDLE:	Element CSO:
Engines Element Manager Engines Deputy Element Mgr.	Engines Chief Engineer Engines Deputy Chief Eng.	ELSE:	EDLE:	EDLE:	EDLE:	EDLE:	EDLE:	EDLE:	EDLE:	Element CSO:
Space Craft and Payload Integration Element Manager	Space Craft and Payload Integration Chief Engineer	ELSE:	EDLE:	EDLE:	EDLE:	EDLE:	EDLE:	EDLE:	EDLE:	Element CSO:

LSE: Lead Systems Engineer DLE: Discipline Lead Engineer

### **SLS Progress**



### **RS-25 CORE STAGE ENGINES**

#### **OVERVIEW**

- World's most powerful, efficient and reliable liquid rocket engine
- Four Space Shuttle-heritage RS-25s
- Upgraded with new controller; engines certified at 512,000 pounds of thrust each

#### **STATUS**

- Sixteen flight engines currently in inventory
- SLS RS-25 testing began at Stennis Space Center in early 2015; currently ongoing



#### **OVERVIEW**

- World's largest rocket stage
- 27.6-foot diameter; 200 feet tall
- Bèing built at Michoud Assembly Facility outside New Orleans, LA



#### **STATUS**

- Welding is underway currently on test and flight articles for core stage fuel tanks
- Refurbishment underway on B-2 stand at Stennis for Green Run core stage test



### **UPPER STAGE AND ADAPTERS**



SLS

#### **OVERVIEW**

- Interim Cryogenic Propulsion Stage is derived from proven second stage of Delta IV Heavy
- Launch Vehicle Stage Adapter and Orion Stage Adapter mate ICPS to core stage and Orion, respectively

#### **STATUS**



- Orion Stage Adapter became first original SLS hardware to fly on Exploration Flight Test-1 in December 2014
- Flight in manufacture currently; test articles will begin stacking for loads testing in late 2016

SIS

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## THE ADVENTURE BEGINS NOW.

